

Center Maintenance,
Operations, and
Engineering (CMOE)

Pre-Proposal Conference

NASA Langley Research Center

January 17, 2013

Agenda

8:00am	Opening Remarks	Chris Mouring, COD
8:10am	Center Overview	Cathy Mangum, COD
8:40am	Test Operations Overview	Allen Kilgore, RD
9:10am	Safety	Grant Watson, SMAO
9:40am	Break	
10:00am	CMOE Overview	Chris Mouring, COD
10:20am	Procurement Information/Other	Mike Kaszyca, OP
10:40am	Cost/Price Workshop	Austin Rentschler, OP
11:40am	Lunch (on your own)	
1:00pm –	Facilities Tour	
5:00pm		

Conference Guidelines

- All questions/communications pertaining to the Draft RFP (DRFP) and proposal preparation instructions shall be submitted in writing to Michael Kaszyca at Michael.Kaszyca-1@nasa.gov in accordance with the DRFP instructions
- We will attempt to answer only presentation/facility-related questions during the conference (*Cost/Price Workshop exception*)
- All questions submitted by the January 10, 2013 initial deadline have been addressed and posted on the NAIS/FedBizOps websites
- List of attendees and conference presentation will be posted on the NAIS/FedBizOps websites
- Nothing stated at this conference should be construed as a revision unless subsequently issued in an amendment or incorporated in the final RFP
- Communications blackout will be invoked once the final RFP is issued

Center Overview

Cathy Mangum

Director, Center Operations Directorate (COD)



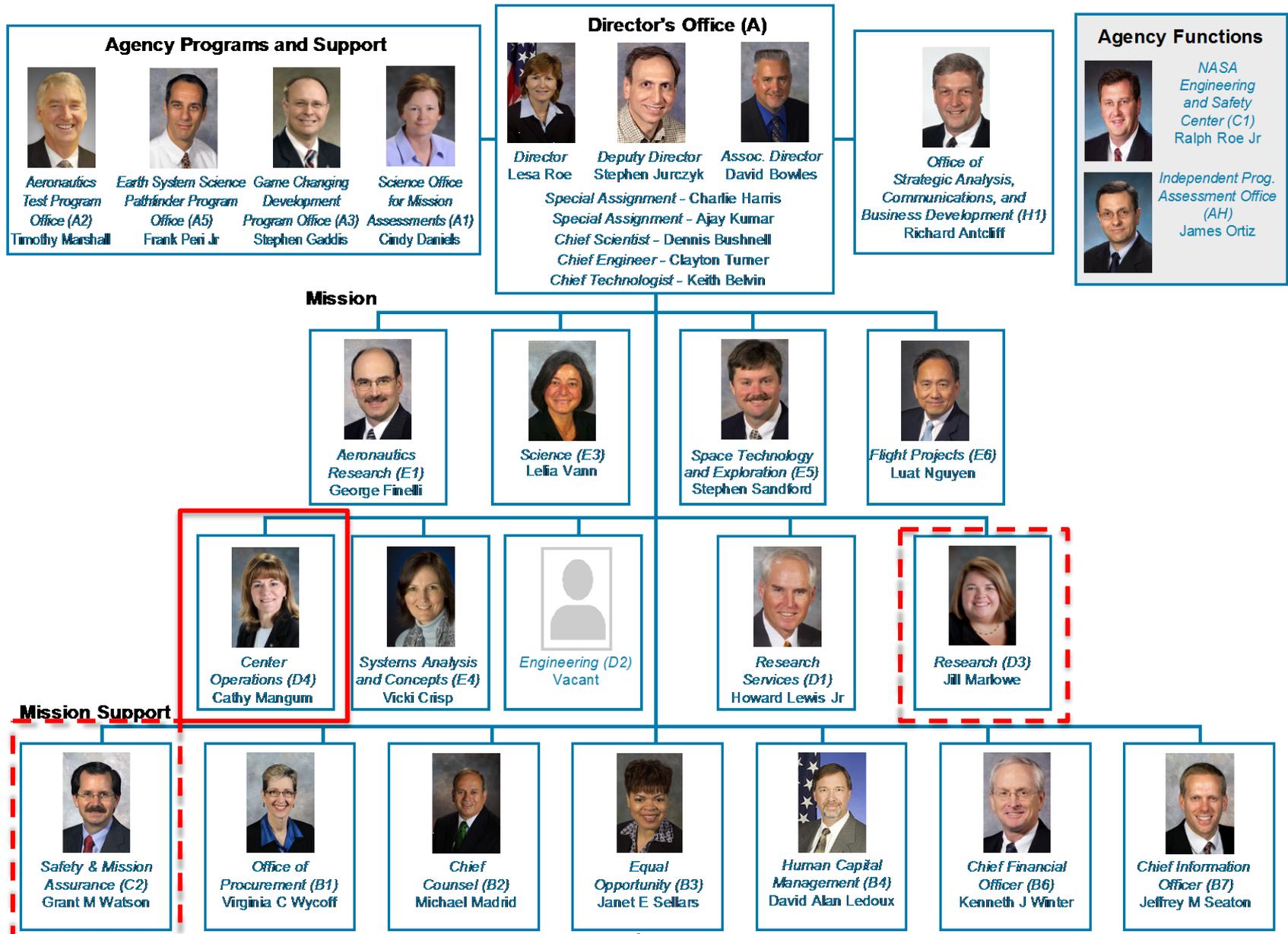
LANGLEY RESEARCH CENTER OVERVIEW

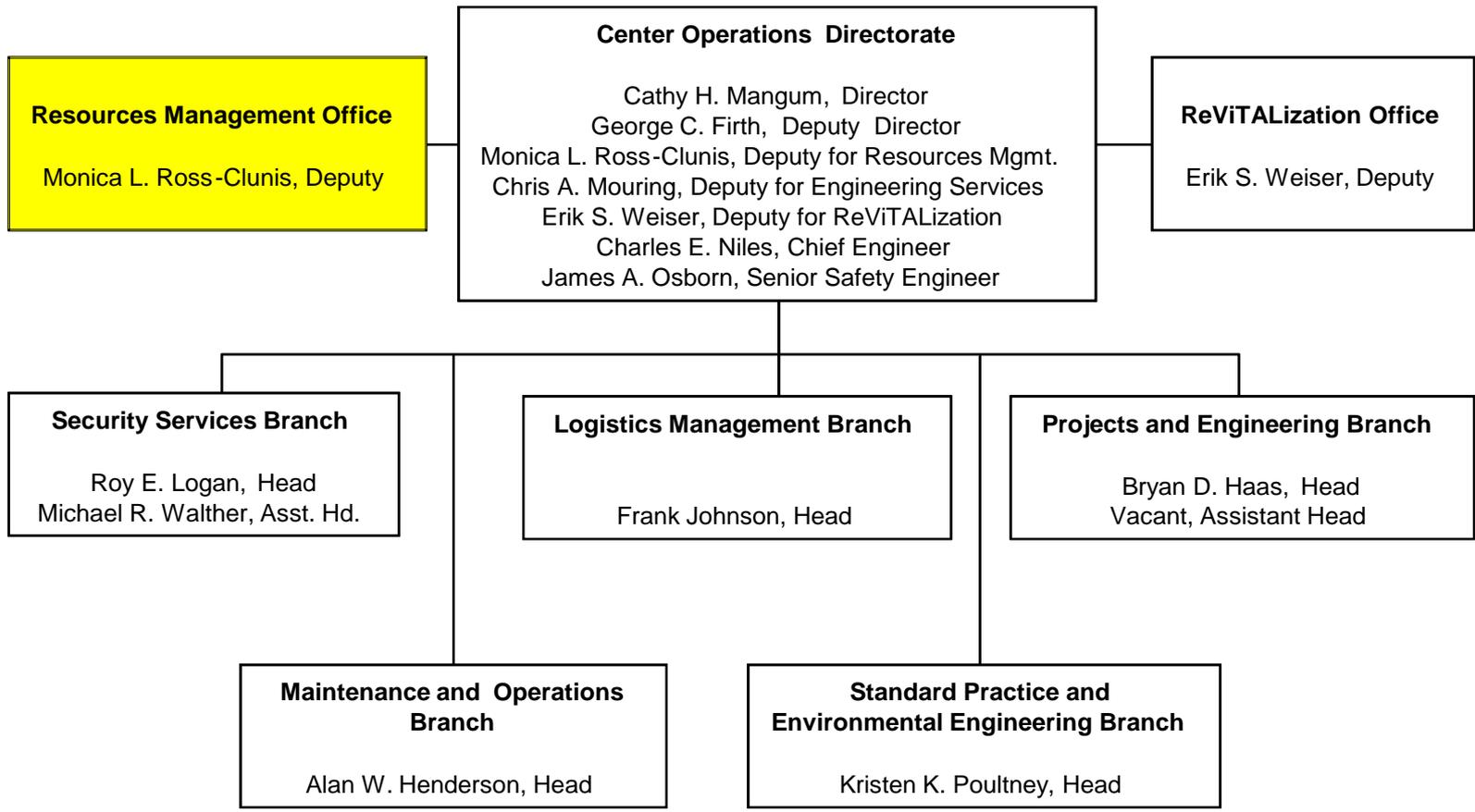


CMOE Industry Day
Cathy Mangum
January 17, 2013

NASA Langley Research Center Organization

Langley is a research, science, technology and development Center that provides game changing innovations to enable NASA to make significant contributions to the Nation.





The Center Operations Directorate (COD) is a valued contributor in planning how mission needs will be met in the future. COD effectively manages the Center’s physical assets with innovative approaches to resourcing and service provision. Our mission is to be the steward of physical assets and provide related services that enable NASA Langley to meet its commitments now and in the future. COD accomplishes this by understanding our customers’ strategic priorities, demonstrating value to their goals and earning their trust. COD enables mission success through proactive anticipation of future needs while being adaptive to dynamic requirements. COD leverages technical expertise and guidance with innovative thinking to facilitate and deliver timely, high quality customer-focused solutions in stewardship of LaRC’s physical assets.



NASA Langley at a Glance (2012)



Founded in 1917 as the first civil aeronautical research lab

~\$845M PY2012 Budget
~\$810M NASA Langley budget
~\$35M External business

~3,600 Workforce
~1,900 Civil Servants
~1,700 Contractors (on/near-site)

Langley's Economic Impact (2011)

National economic output of ~ \$2B and generates over 17,000 high-tech jobs

Virginia economic output of ~ \$1B and generates over 9,000 high-tech jobs

Issued 30 NASA patents and won the Federal Lab Consortium Technology Transfer Award.

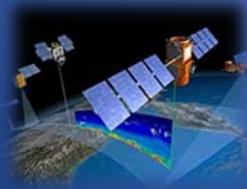
Infrastructure/Facilities

788 acres, 169 Buildings
~\$3.3B replacement value

Aeronautics
44%



Science
28%



Space Tech
15%



Human Exploration
10%



Education
3%



Cross-Agency Support Programs & Construction/Environmental Compliance & Restoration

Center Management & Operations

(Facilities, Fab, Engineering, Tech Authority, B&P, IRAD, Safety/Mission Assurance, Legal, Finance, Procurement, Human Resources)

Agency Management & Operations

(NASA Engineering & Safety Center, Office of Chief Engineer, Agency IT)

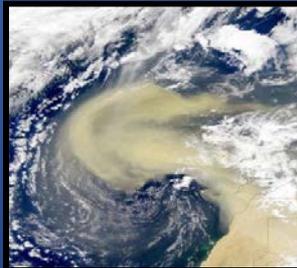
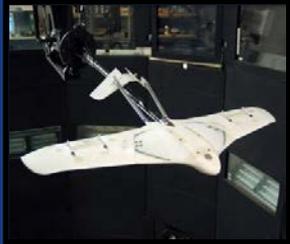
Construction/Env Compliance & Restoration

(Revitalization Plan)

NASA Langley Core Competencies

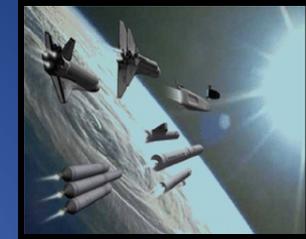
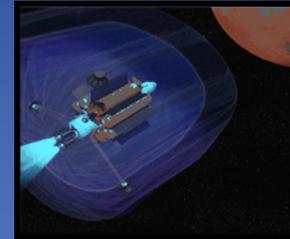


Aerosciences Research for Flight in All Atmospheres

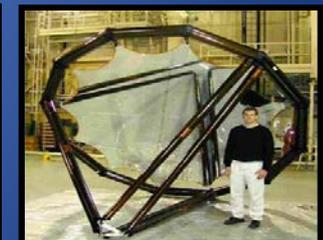


Characterization of all Atmospheres (Lasers & LIDAR)

Aerospace Systems Analysis

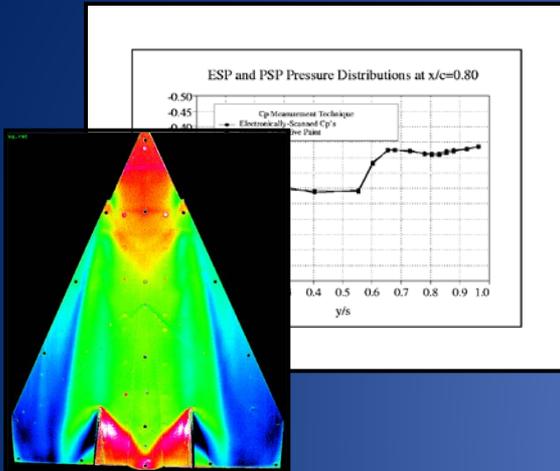


Entry, Descent & Landing

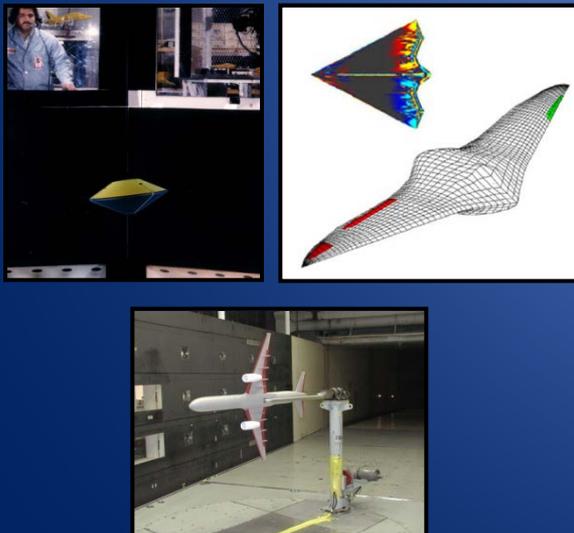


Aerospace Structural & Material Concepts

Aerodynamics



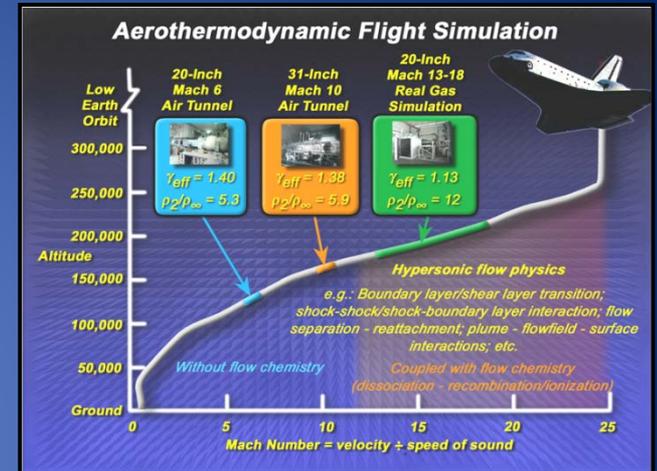
Flight Dynamics, Guidance & Control



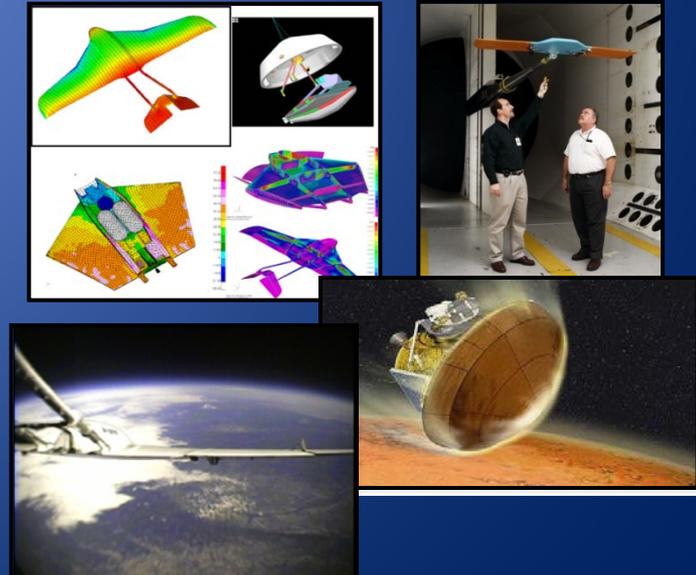
Acoustics



Aerothermodynamics



Systems Engineering



Flight Systems



Characterization of All Atmospheres



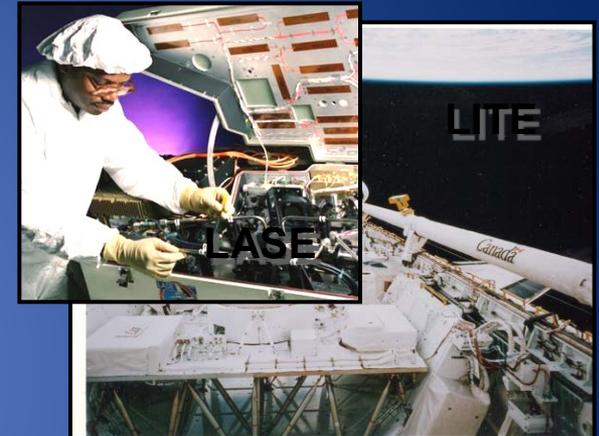
Climate and Radiation



Atmospheric Chemistry



Lasers and LIDAR



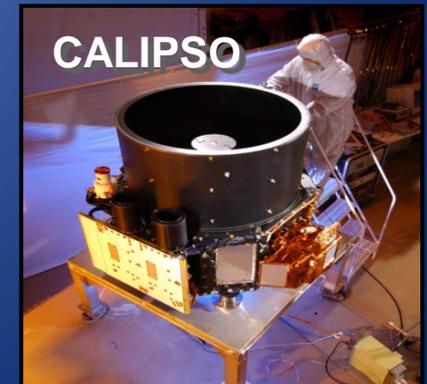
In-situ and Remote Sensing



Atmospheric Science Data Management



Systems Engineering



Structures & Materials

Materials synthesis & processing



Analytical and computational methods



Concept behavior, durability, & damage tolerance

Nondestructive evaluation



Structural, impact, & landing dynamics

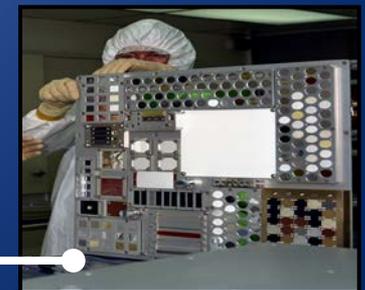


Aeroelasticity & unsteady aerodynamics



Experimental methods & laboratory operations

Flight systems engineering for space



Aging Infrastructure Poses Risk to Mission



- Agency-wide, more than 80 percent of NASA's infrastructure and facilities by value are beyond their design life – thus more likely to be unsuitable for current and future missions.
 - Aging, Apollo-era legacy infrastructure is inefficient and costly to maintain and operate.
 - Assets over 40 years old (typical design life is 30 years) pose a risk to NASA's unique research and development mission.
- Risk severity rises as assets age beyond 40.
 - To control risk, control the share and average age of assets >40
- Maintenance backlog continues to grow.

Whitlow – “NASA Facility Strategy Presentation” at the 2011 Facilities Engineering Conference

LaRC's oldest building is close to 80 years old and the Center average is 44 years old – We are proactively revitalizing the Center's core infrastructure to meet future missions.

Creating Langley's Future...It's **ViTAL**



Langley creates innovative solutions to the grand challenges of earth science, space exploration and flight in all atmospheres, for the benefit of all humankind.

- “Mother Center”
- NACA
- National Aeronautics Lab
- Unitary Plan
- Birth of Space Program

Heritage

- New Town
- Revitalize Langley
- Lab Consolidation
- Diversified Portfolio
- Repair by Replacement
- Recapitalization

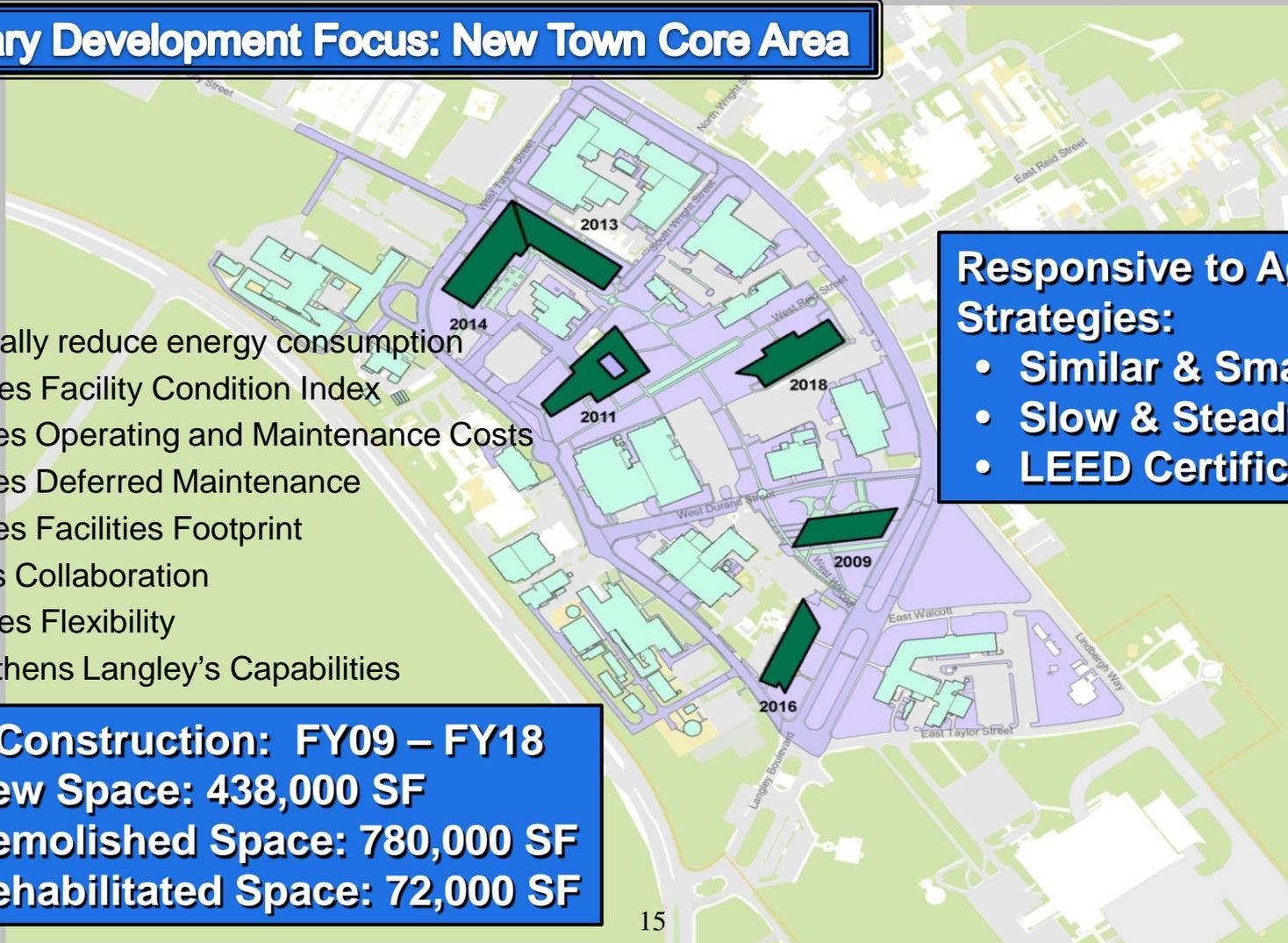
Present

- Enables full spectrum of R&D
- Promotes collaboration and productivity
- Flexible and adaptive to changing mission needs
- Environmentally sustainable
- Embraces future work environments

Future

New Town Campus Concept

Primary Development Focus: New Town Core Area



Benefits

- Drastically reduce energy consumption
- Improves Facility Condition Index
- Reduces Operating and Maintenance Costs
- Reduces Deferred Maintenance
- Reduces Facilities Footprint
- Fosters Collaboration
- Improves Flexibility
- Strengthens Langley's Capabilities

Responsive to Agency Strategies:

- Similar & Smaller
- Slow & Steady
- LEED Certification

New Construction: FY09 – FY18

- New Space: 438,000 SF
- Demolished Space: 780,000 SF
- Rehabilitated Space: 72,000 SF

Overarching Revitalization Decisions



- ❖ Sustain / enhance essential in-house experimental capability
- ❖ Enable multi-disciplinary integrated systems capability
- ❖ Incorporate Computational Simulation as a cross-cutting capability in everything we do
- ❖ Continually assess the needs of NASA's missions and divest of facilities (even large ones) when it no longer makes sense for the mission and the national good

Summary of Investments and Savings



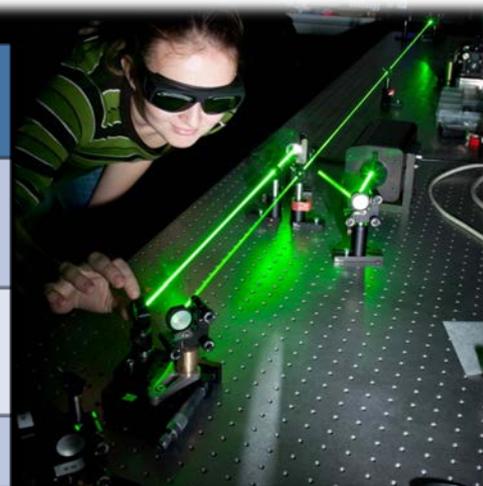
- Provides 6 new state-of-the-art, sustainable, energy efficient R&D facilities
 - **Sustains, enhances and creates our essential experimental capability to meet future agency missions** by providing more efficient and effective facilities and labs
- By 2030 the Center Revitalization Plan:
 - Saves **\$105M** Maintenance and Utilities
 - Eliminates **\$141M** Deferred Maintenance
 - Reduces our footprint by **1.21M sq. ft.**
 - Achieves **604K sq. ft.** of new building space
 - Reduces the current replacement value (CRV) by **\$1B**
- Plan requires investments which will be funded through Agency Construction of Facilities (CoF) and Recapitalization funds, Program dollars and LaRC's CMO

20 Year Revitalization Plan



In Chronological Order

FY Start	Description	Justification
2012	Integrated Engineering Services Center	<ul style="list-style-type: none"> • Relevant to all MDs • Move assets to core campus • Demolish 5 buildings ~ 133K sq. ft.
2013	Facility Upgrade B1247: Consolidate and Repurpose Multiple Research Wind Tunnel Assets	<ul style="list-style-type: none"> • Relevant to ARMD, HEOMD, STP • Move assets to core campus
2014	Lab: Rehab B1230 for ASOMB	<ul style="list-style-type: none"> • Relevant to ARMD • Move assets to core campus
2014	Facility Upgrade: Complete Experimental Test Range; Move Electromagnetic Interference and Compatibility Chamber	
2014-18	Infrastructure: Compressor Station Rehab & Electrical Distribution Upgrades	

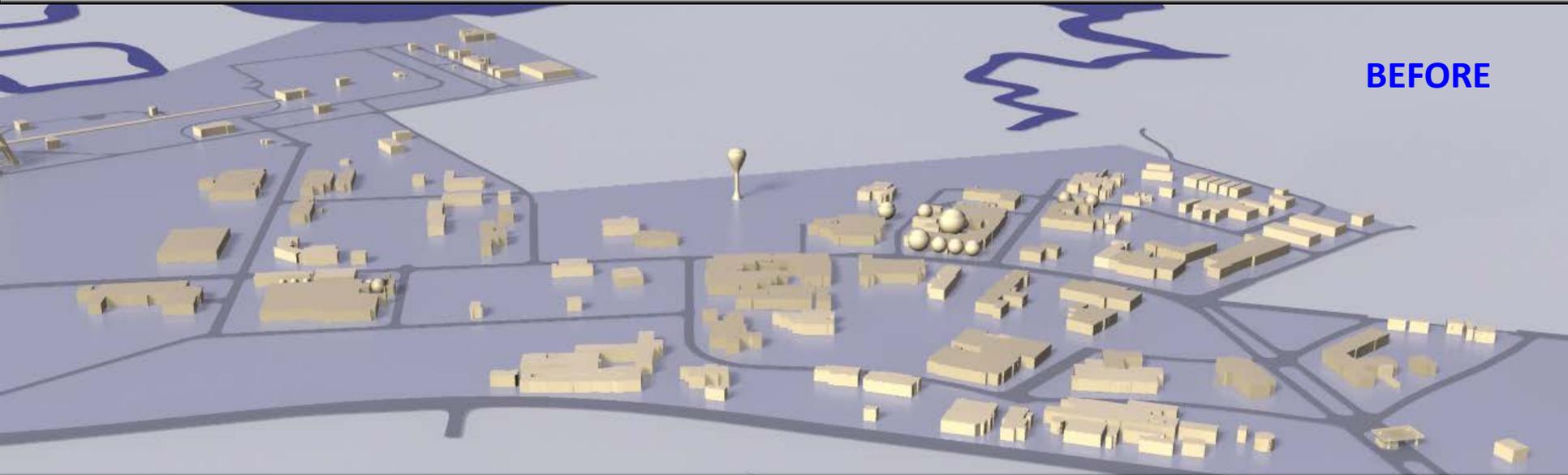


FY Start	Description	Justification
2015	Lab: Measurement Sciences Lab	<ul style="list-style-type: none"> • Relevant to all MDs • Move assets to core campus • Demolish 3 buildings ~ 200K sq. ft.
2017	Data Center & Office: Rehab B1194 into Computational Data Center & Offices	<ul style="list-style-type: none"> • Relevant to all MDs • Move assets to core campus • Consolidation of IT capability to energy efficient facility • Demolish 1 building ~ 68K sq. ft.
2018	Lab: Materials/Nano Research / Flight Dynamics Research Facility (VST)	<ul style="list-style-type: none"> • Relevant to all MDs • Move assets to core campus • Demolish 7 buildings ~ 147K sq. ft.
2023	Lab: Flow Physics Research Lab	<ul style="list-style-type: none"> • Relevant to all MDs • Move assets to core campus • Demolish 2 buildings ~ 197K sq. ft.
2028	Lab: Integrated Systems Development	<ul style="list-style-type: none"> • Relevant to all MDs • Move assets to core campus • Demolish 4 buildings ~ 199K sq. ft.

20 Year Center Transformation



BEFORE



AFTER



 New  Rehab



LARC 20 YEAR REVITALIZATION PLAN

A Comprehensive Strategy for Facilities and Laboratories



QUESTIONS

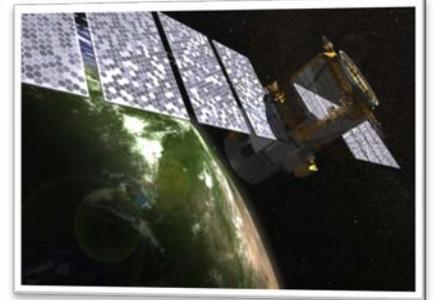
Test Operations Overview

Allen Kilgore

Deputy Director for Facilities and Laboratory Operations
Research Directorate (RD)

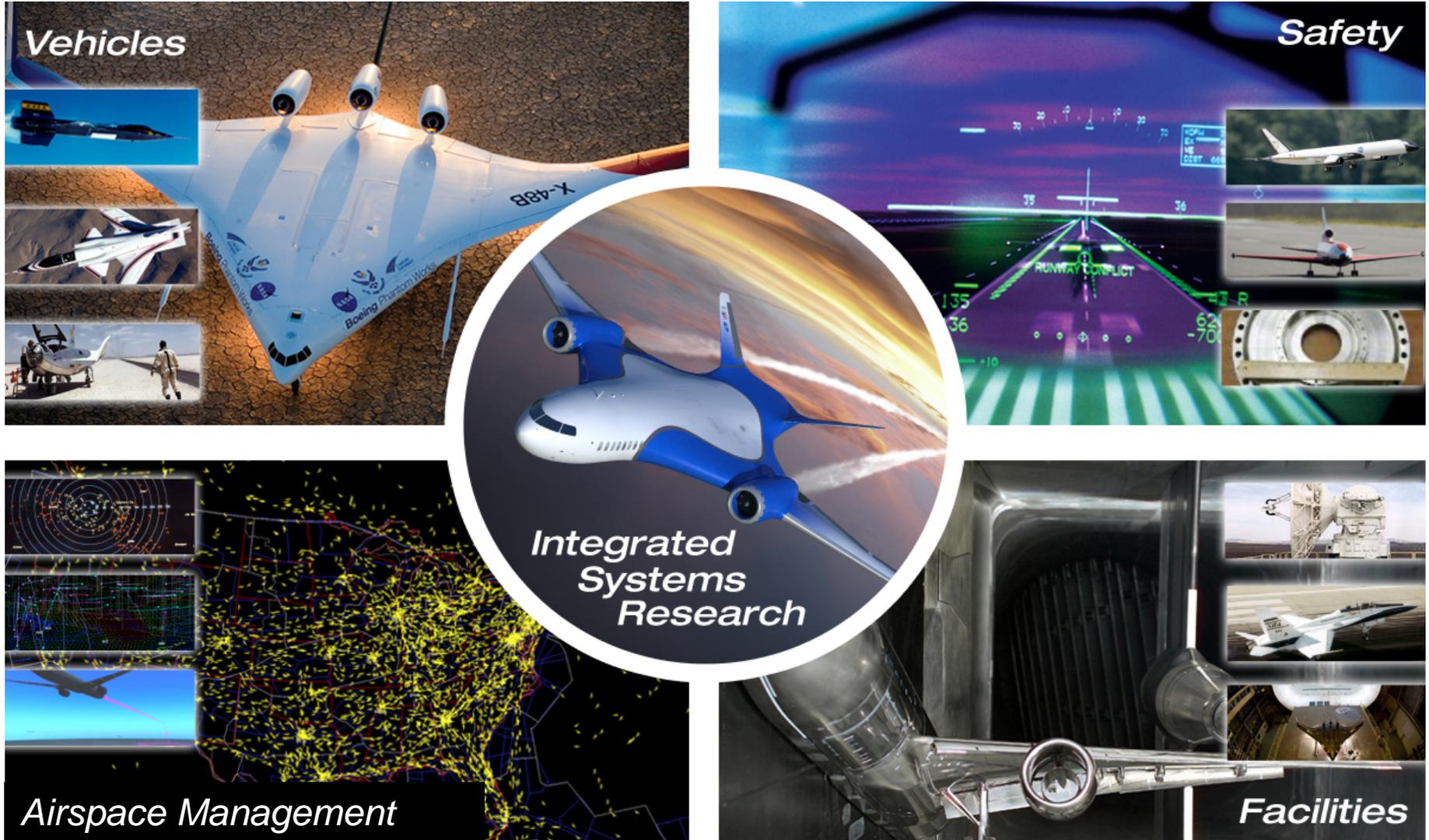


LANGLEY RESEARCH CENTER



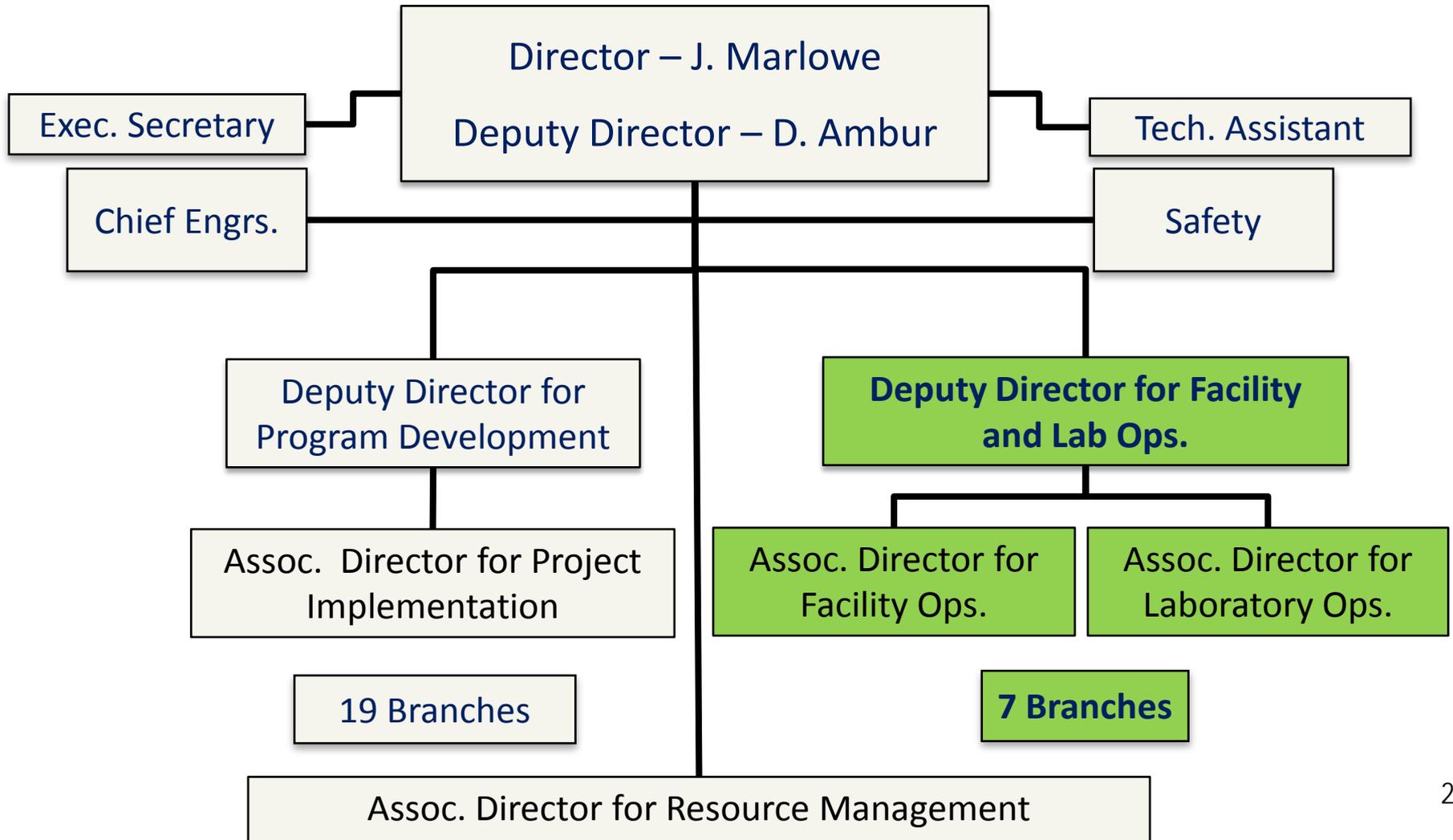
W. Allen Kilgore
Deputy Director for Facilities and Laboratory Operations
Research Directorate

Aeronautics (44%)



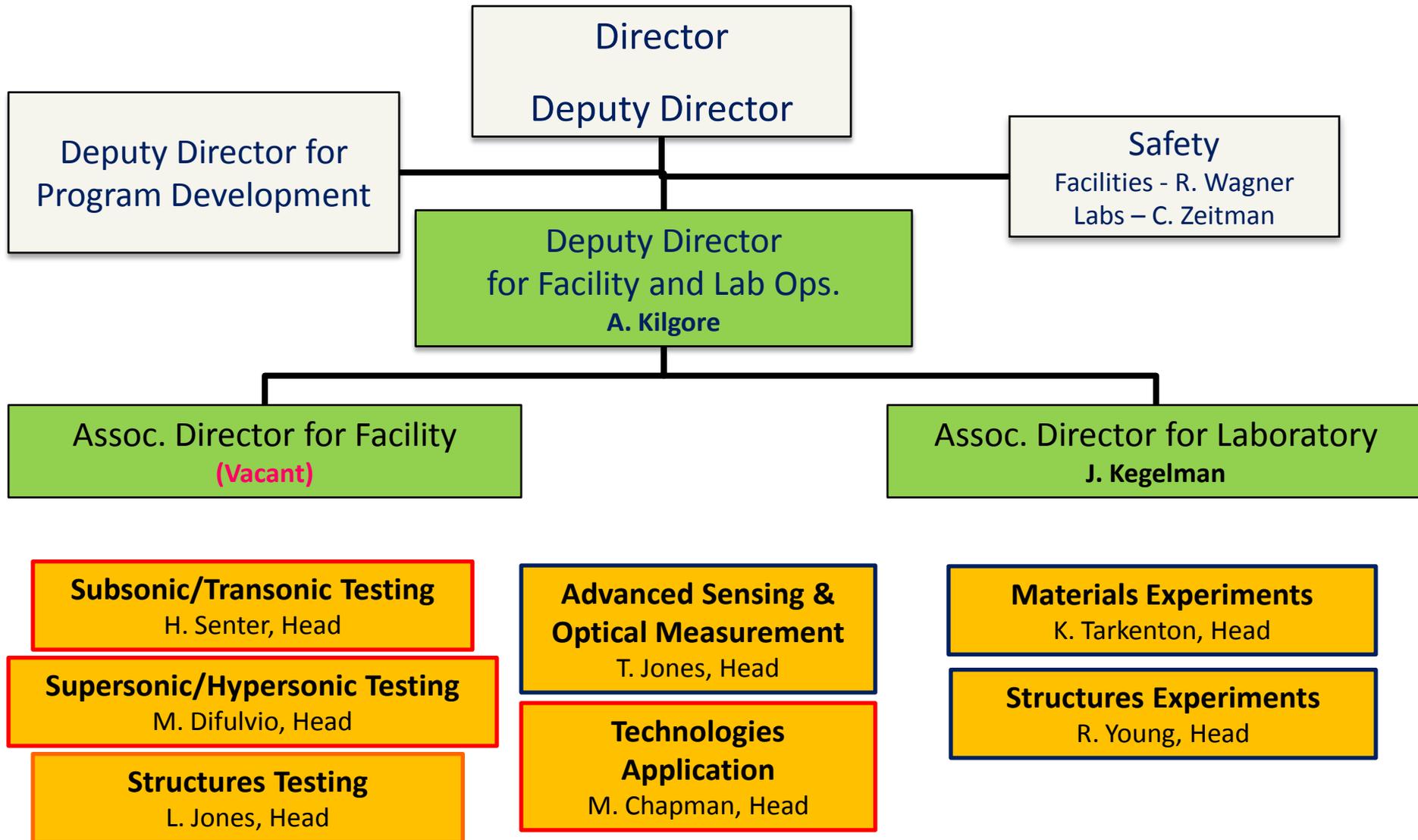
Research Directorate

Goal: Promote increased collaboration between research and operations for effective and efficient R&D program execution.



Research Directorate Organizational Model

Facilities and Labs



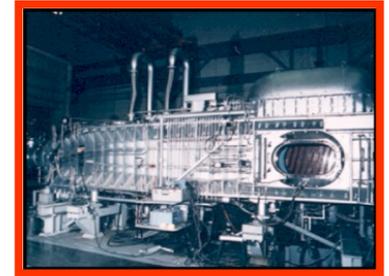
Aeronautics – LaRC Major Wind Tunnels



14 x 22 Foot Subsonic Tunnel
Subsonic, Alternate Uses



National Transonic Facility
High Reynolds Number Flow
Nationally Unique



Aerothermodynamic Complex
Exploration Workhorse

Subsonic

Transonic

Supersonic

Hypersonic



20-Foot Vertical Spin Tunnel
Spin Characteristics & Dynamic Stability
Nationally Unique



Transonic Dynamics Tunnel
Aeroelasticity & Flutter
World Unique



8-Ft High Temperature Tunnel
Large-scale Hypersonics & Propulsion

For Details of all LaRC Wind Tunnel: <http://gftd.larc.nasa.gov/>

Wind Tunnel Testing (FY12)

20-Ft VST



14x22

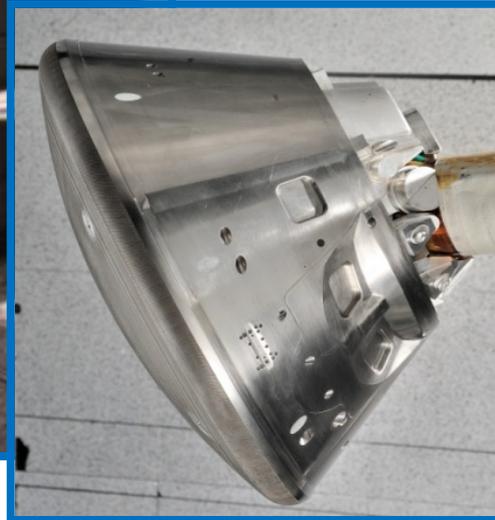
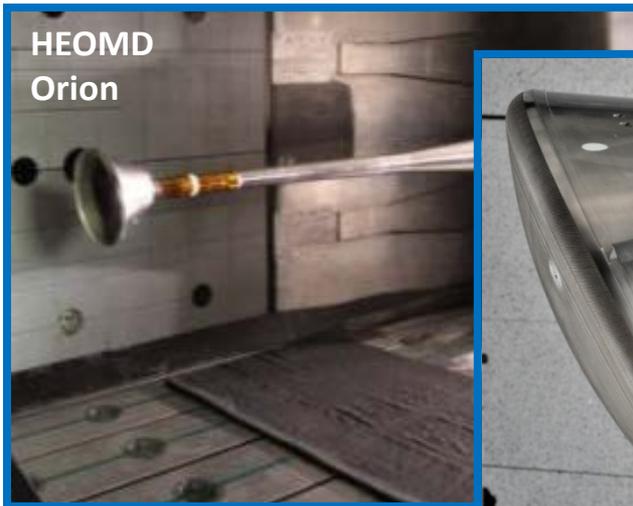


Wind Tunnel Testing (FY12)

TDT

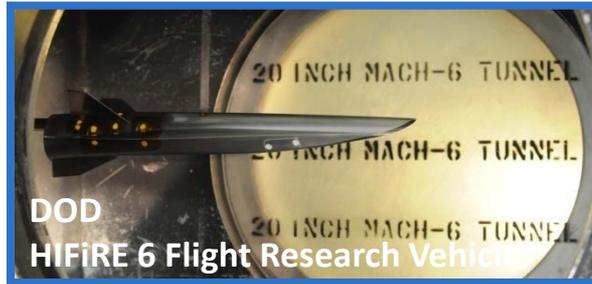
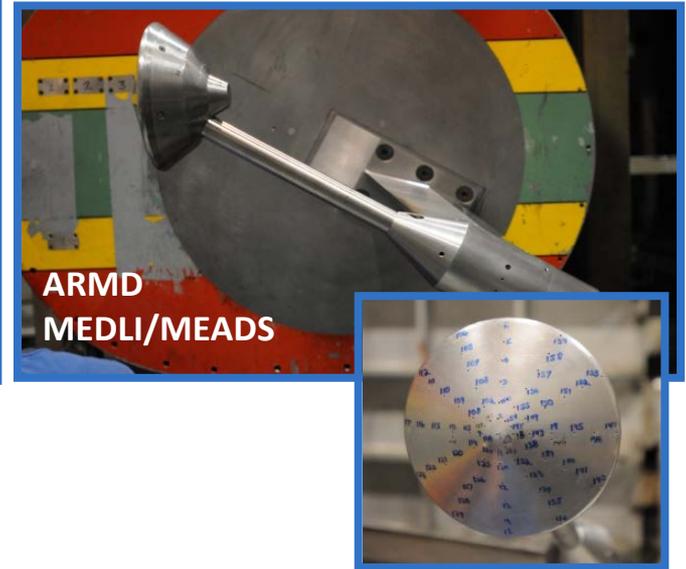


NTF

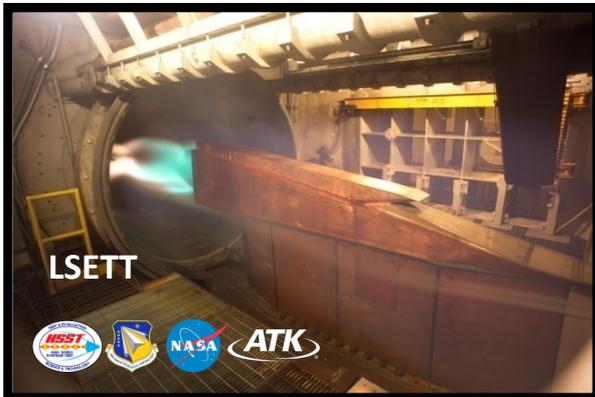


Wind Tunnel Testing (FY12)

LAL



8-Ft HTT



Other LaRC Large Scale Testing

(Structures Tests)

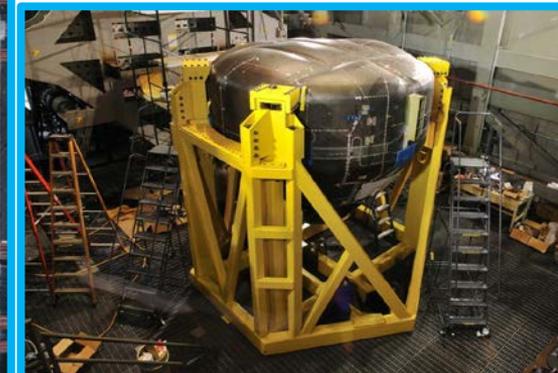
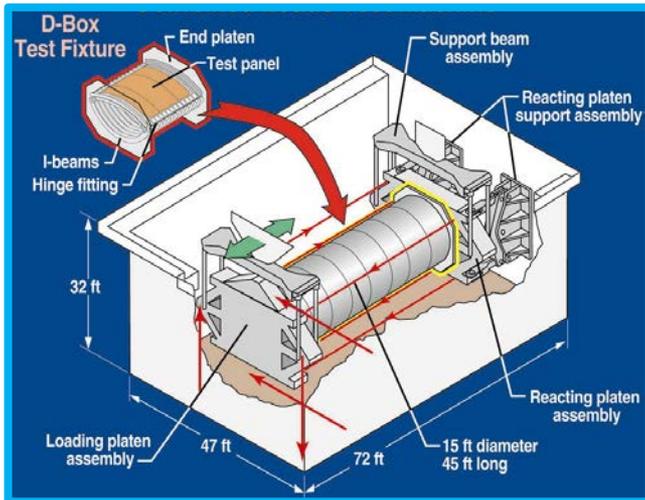
Landing and Impact Research



Orion Drop Test

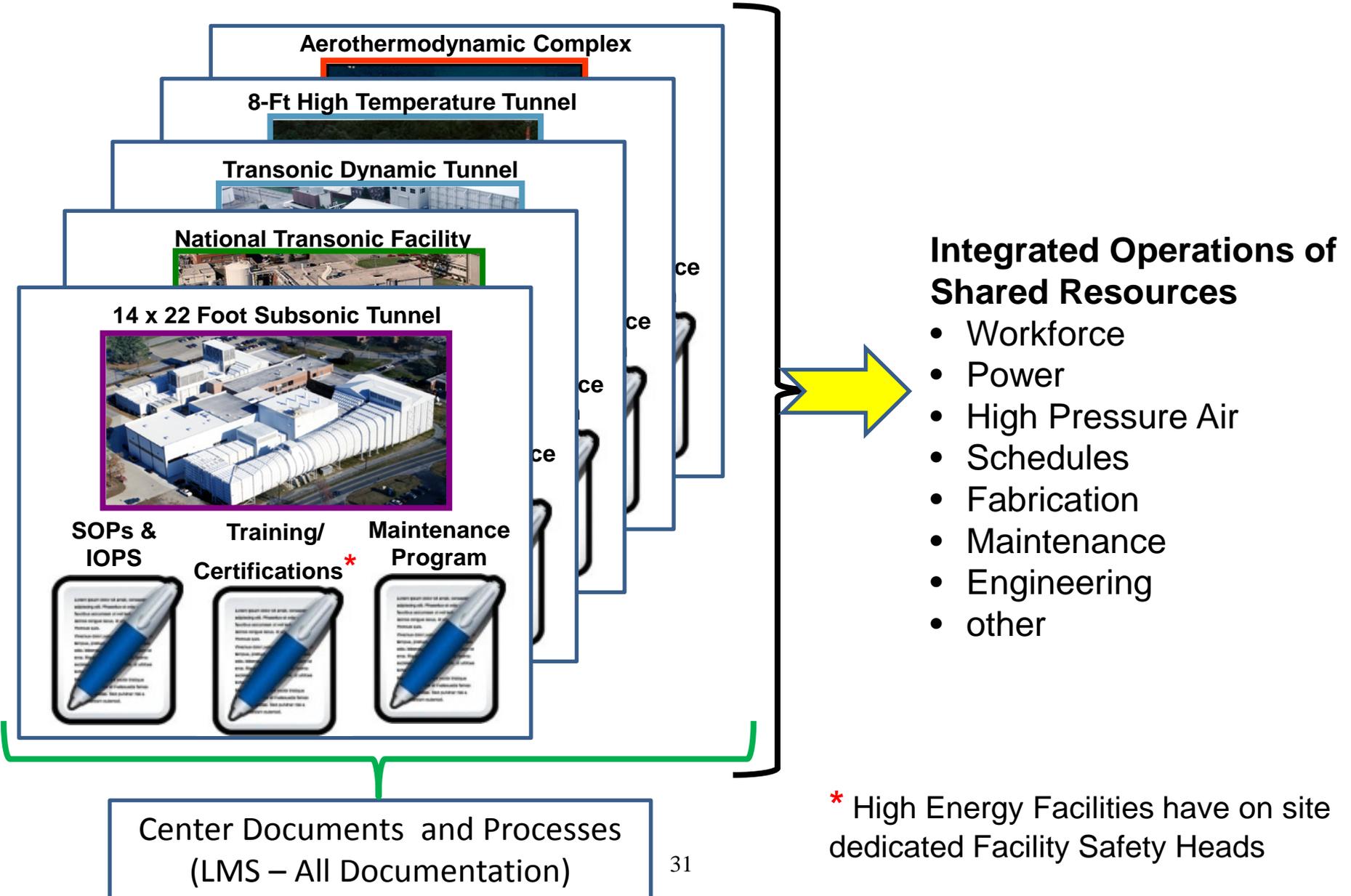
Hydro-Impact Basin

Combined Load Test System

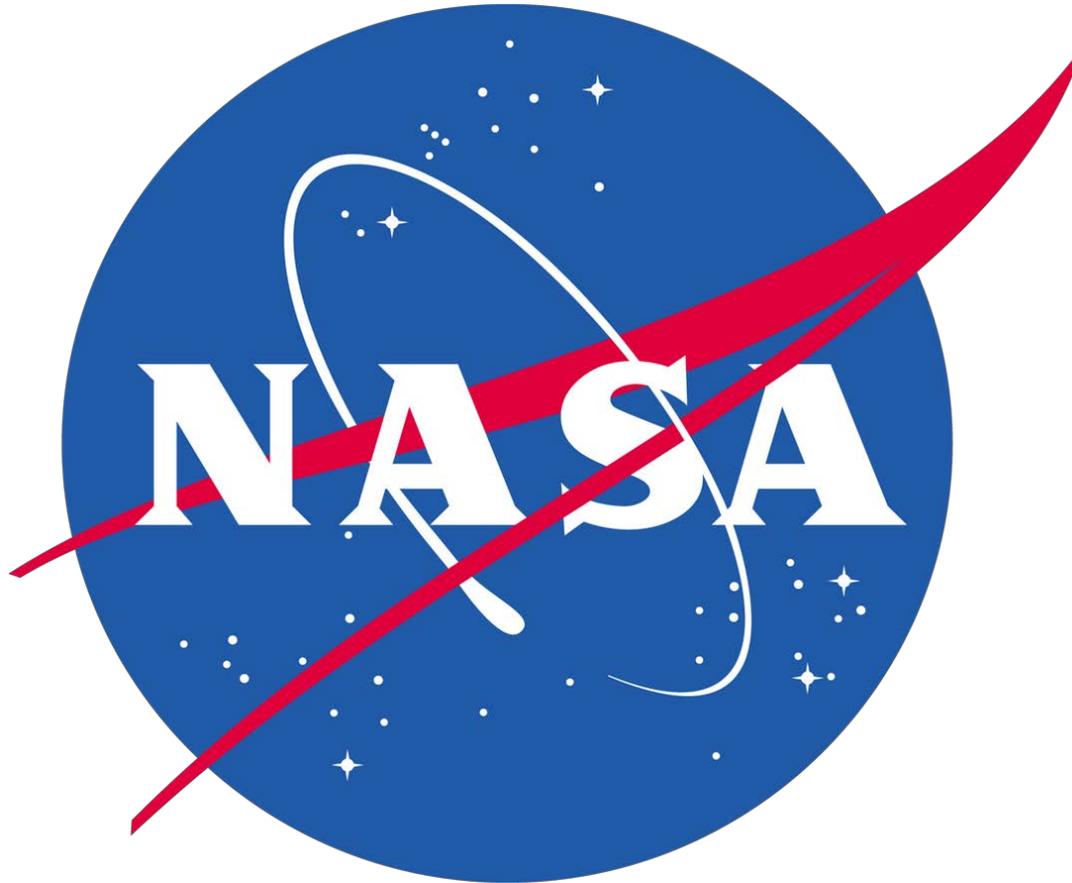


Composite Panel and Systems Testing
Crack Propagation

How We Integrate It All



Questions



Thank You for Coming!

Safety

Grant Watson

Director, Safety and Mission Assurance Office
(SMAO)

CMOE SAFETY PRESENTATION



AGENDA

OSHA Voluntary Protection Program

Safety Culture

LaRC Safety Around the Organizations

Safety and Facility Assurance Branch

Summary



OSHA VPP SITE

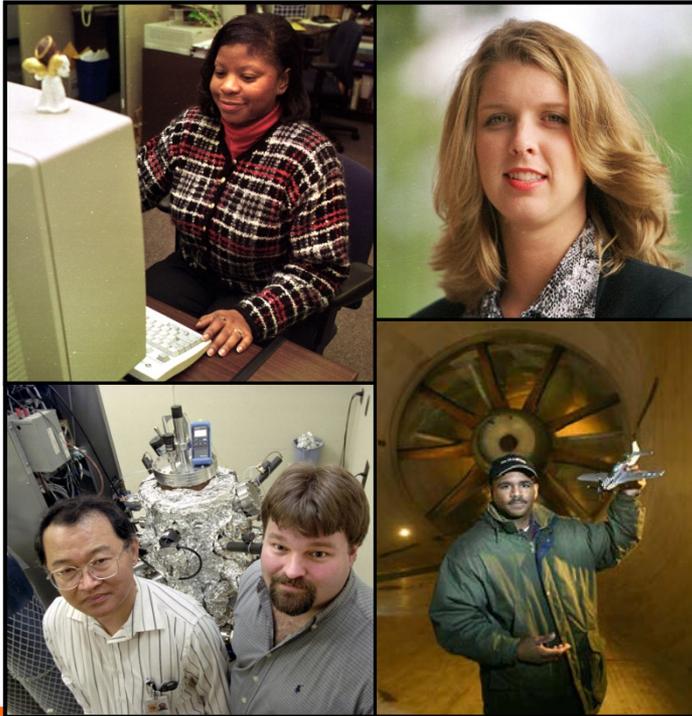
- **Comply with and enforce all OSHA regulations.**
- **Provide a safe and healthful workplace.**
- **Perform inspections, identify and correct potential safety and health hazards.**
- **Prepare for emergency situations.**
- **Perform accident investigations.**



*LaRC has been an OSHA Voluntary Protection Program
STAR site since 1998 (1st Federal Work-Site)*



SAFETY CULTURE - SAFETY IS ABOUT PEOPLE



People at Work



People at Home

Safety is about the people at home and work



SAFETY CULTURE INITIATIVE – INCIDENT & INJURY FREE WORKSHOP



- Goal is to create a caring, respectful culture:
 - Leadership commitment to safety
 - Engender genuine teamwork
 - Commit to value added safety communications



SAFETY CULTURE – LOST TIME SIGNS

We Changed our Lost Time Sign

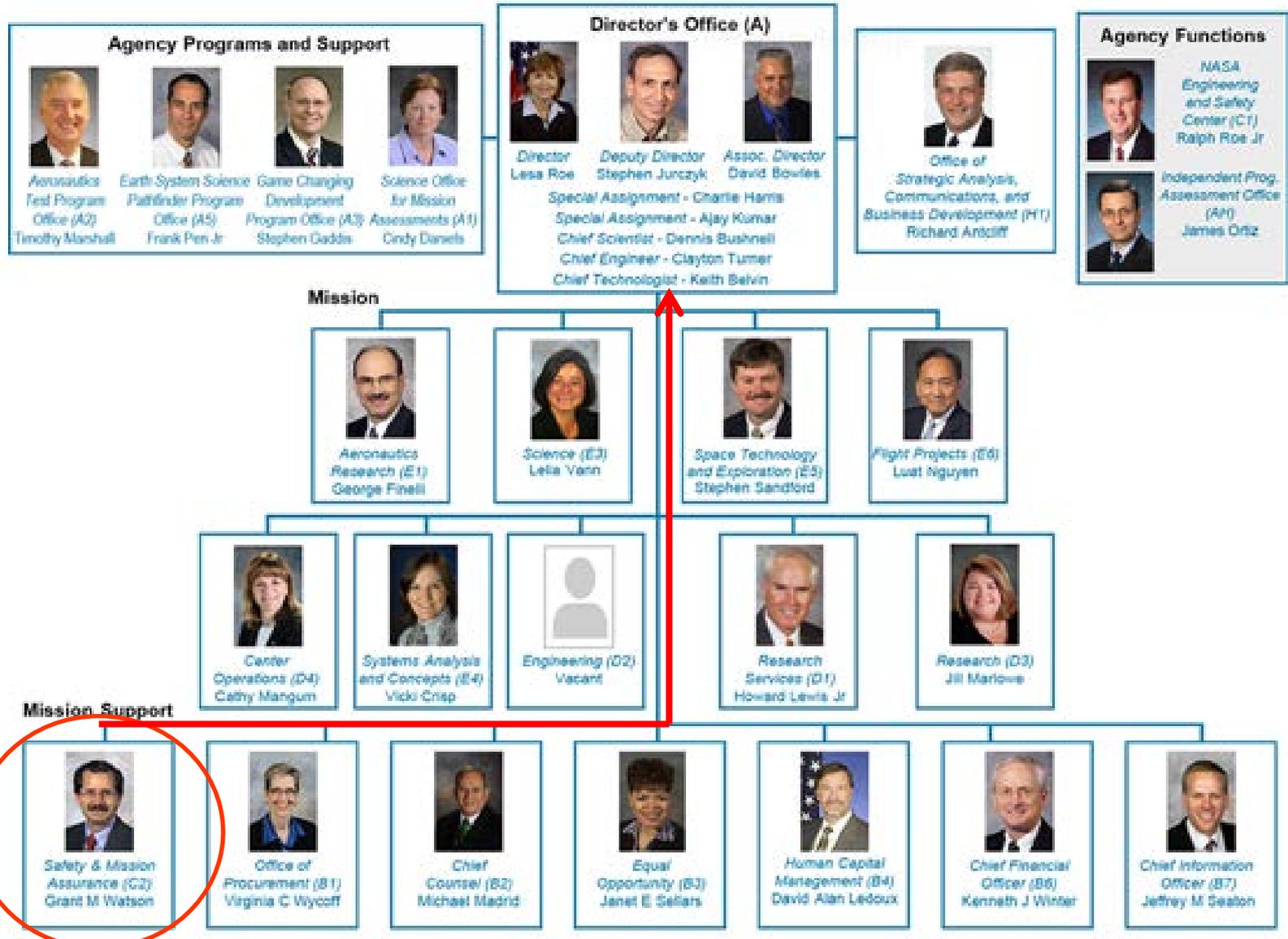
- Had negative feedback from center personnel
- “I didn’t want to be the person that reset the sign”
- Will be used to display various safety messages

We talk numbers with contractors but metrics are not the only way that we evaluate them.





LARC ORGANIZATION





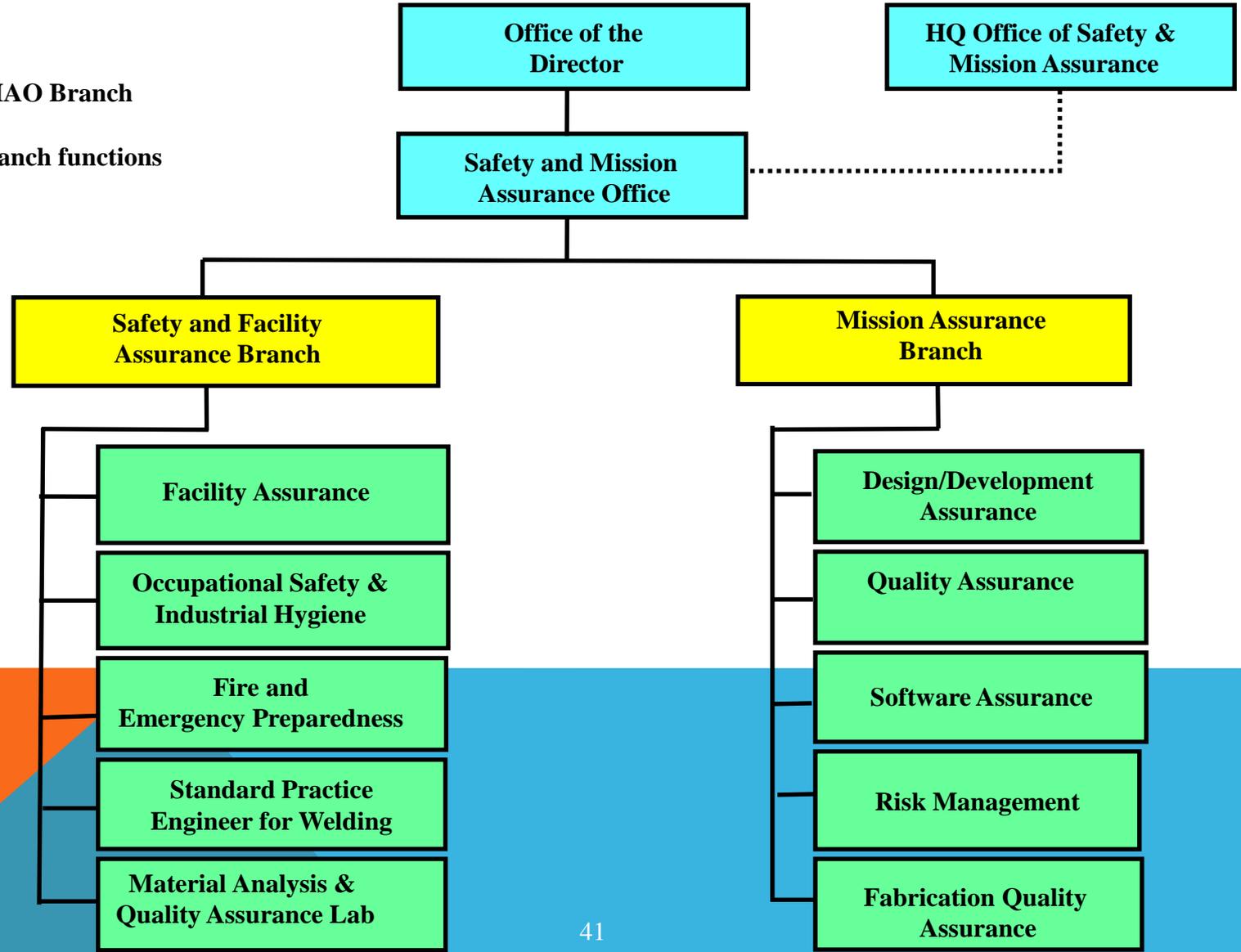
SAFETY AND MISSION ASSURANCE BRANCH



SMAO Branch

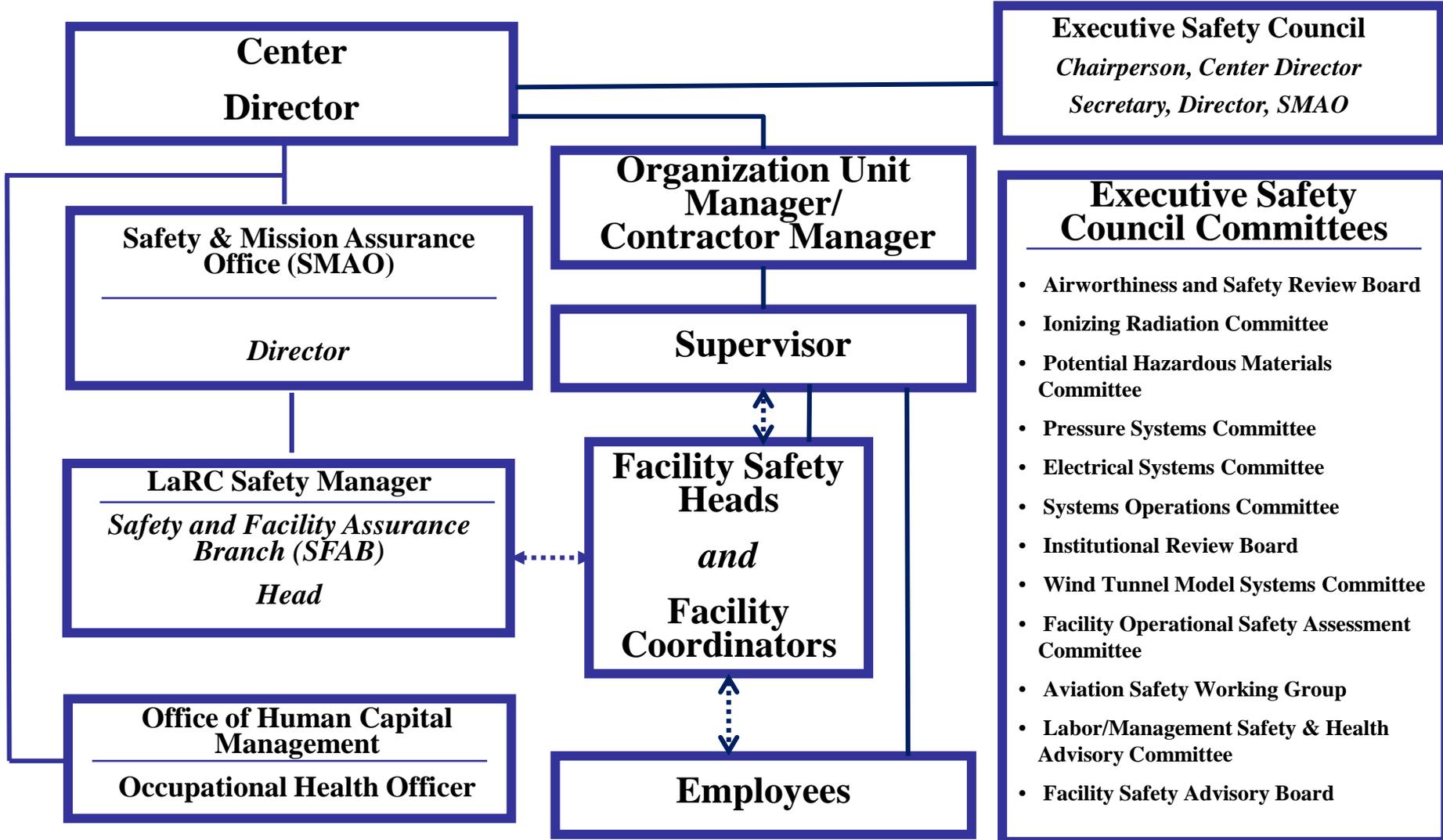


Branch functions





LARC SAFETY ORGANIZATION





SAFETY AND FACILITY ASSURANCE BRANCH





SAFETY AND FACILITY ASSURANCE BRANCH

Activities:

- Establish LaRC's safety policies (3 LaPDs; 3 CPs, 20 LPRs)
- Center's advocate for safety
- Provide safety expertise to LaRC
- Perform 3rd party safety reviews
- Provide emergency response and COOP services

Customers:

- Center and Deputy Director
- All Center personnel

Resources:

- 14 CS FTEs
- 46 WYEs

Functional Areas:

- Facility Safety and Assurance
- Occupational Safety and Industrial Hygiene
- Fire and Emergency Services



SAFETY AND FACILITY ASSURANCE BRANCH



Function: Occupational Safety & Industrial Hygiene

- Activities:**
- Provide OS&IH oversight for the Center and Manage LaRC's OS&IH Program (hearing protection, HAZCOM, asbestos, ergonomics, construction safety, etc.)
 - Annual Safety Audits of all Facilities
 - Industrial Hygiene Audits
 - Construction Safety Briefings & Audits
 - Safety Awareness
 - Safety Training and Certification
 - Safety Permitting (radiation, confined space, asbestos, and PHM)
 - Address Safety Concerns/Hazards/Close Calls
 - Mishap Investigation
 - Interface with OSHA/VPP



- Customers:**
- Center and Deputy Director
 - All Center Personnel

- Resources:**
- 4 CS FTEs
 - 6 WYEs (SQAA)



OCCUPATIONAL SAFETY & INDUSTRIAL HYGIENE - HOW THIS RELATES TO CMOE

- **SFAB will have oversight of your activities where Civil Servants or other contractors may be affected by your activities.**
- **Construction Safety Briefing – All construction subcontractors are required to attend a Construction Safety Briefing. CMOE may be able to conduct their own safety briefing.**
- **Asbestos & Confined Spaces – These activities require CMOE personnel and SFAB personnel to work together to ensure all personnel safety and requirements are met.**
- **CMOE will provide Facility Safety Heads (FSH) and Facility Coordinators (FC)- The FSH & FC will be required to conduct facility monthly inspections and to work with SFAB personnel to solve issues affecting personnel in their facilities.**



FACILITY ASSURANCE - HOW THIS RELATE TO CMOE

- **SFAB Engineering personnel will work with the CMOE engineering personnel to ensure facility designs meet safety requirements. This include review of Drawing Packages**
- **Many facilities on the Center are under Configuration Management (CM). CMOE will provide support to SFAB CM process. This will require working with SFAB engineers, FSH, FC and other groups around the Center**
- **CMOE engineers and FSH will work with SFAB engineers regarding project hazard analysis, safety assessments, tunnels modifications, etc.**

- In 2010 the Center released a re-written Langley Procedural Requirement (LPR) 1710.10 - LaRC Energy Control Program (Lockout/Tagout)
- All LOTO hardware standardized throughout the Center
- All LOTO on the Center is performed by Safety Operators only. This is a variation from the industry standard that we have worked thoroughly with OSHA.





SAFETY AND FACILITY ASSURANCE BRANCH



Function: Fire and Emergency Services



Activities:

- Fire & Life Safety Audit
- Fire Fighting
- Advance Life Support
- Fire, Security, Ambulance Dispatch
- Fire Extinguisher Maintenance
- Fire Detection Systems
- Mishap Investigation

Customers:

- Center and Deputy Director
- Facility Safety Heads & Facility Coordinators
- All Center Personnel

Resources:

- 2 CS FTE
- 3 WYE's (SQAA)
- 24 City of Hampton Firefighters



FIRE & EMERGENCY SERVICES – HOW THIS RELATES TO CMOE

- **CMOE personnel will be required to help the Center Prepare and recover from storms (Hurricanes, Snow Storms, Tornados, etc.) by following directions from the Center Emergency Preparedness Officer**
- **CMOE will support the Fire Chief and the Safety Manager during emergencies requiring HAZMAT services**
- **Modification of Facilities need to be reviewed and approved by SFAB Fire Protection Engineering**



SHAW – SAFETY & HEALTH AWARENESS WEEK

- **Started as safety stand down day in 1998**
 - Center Director gave opening remarks and a safety presentation
 - Some training classes were presented
 - SFAB prepared slides and sent to organizations for safety meetings
 - Housekeeping clean-up followed by management walk-thru
- **2006 became Safety Awareness Week**
 - Spread training classes throughout the week to accommodate schedules
 - Started the exposition and picnic
 - Periodically Environmental Branch has had HazMat Amnesty
- **2007 added the “H” (Health) to form SHAW**
 - Included the Clinic and Fitness Center into training and expo activities
 - 2008 to present we have been increasing the number of training classes and increasing the number of expo participants
- **We expect the Contractors and its employees to participate in the activities during this week or any other special safety activities.**



IN SUMMARY

- **We listen to people on the Center, we value their input, we incorporate their suggestions and make improvements**
- **We are accessible to the workforce. For example, participation in organizational safety meetings, close call reporting and investigations.**
- **We trend data and respond accordingly.**
- **We promote a strong safety and health culture on-site. We believe it is very important to ensure employee healthy and safety.**



Break

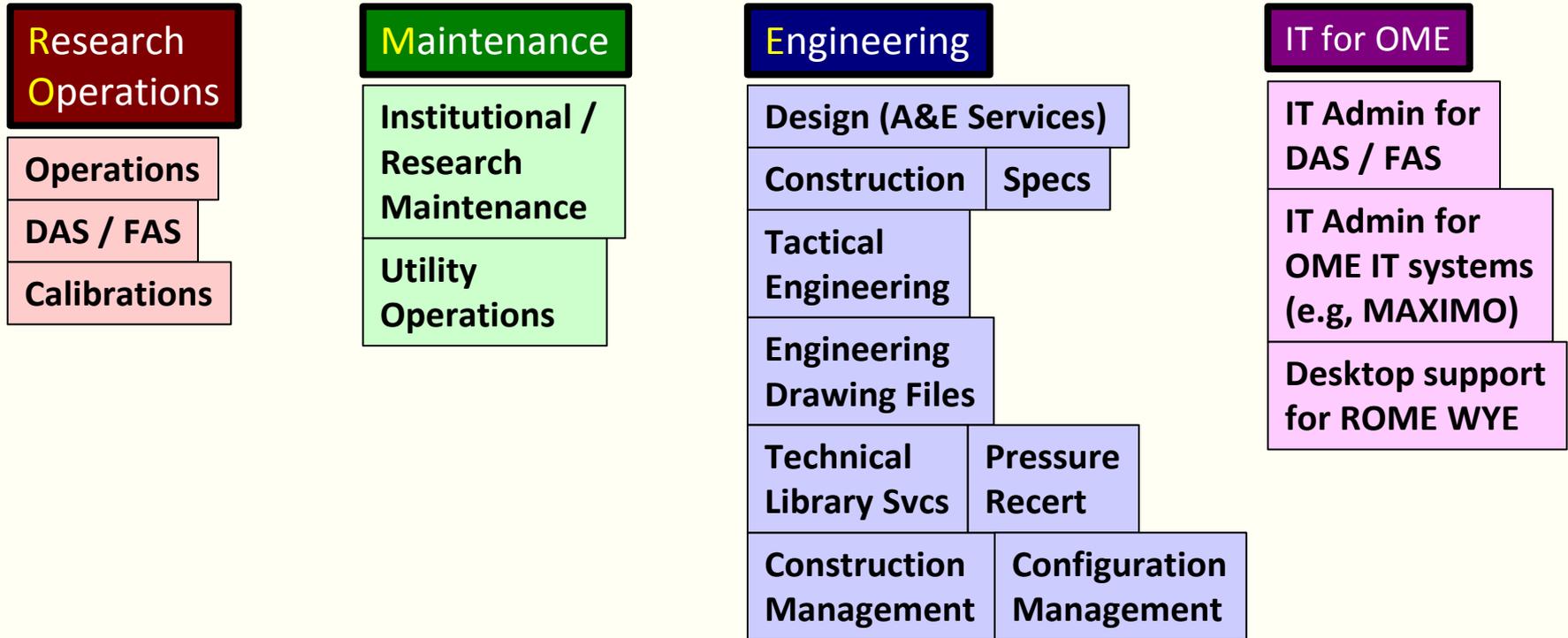
CMOE Overview

Chris A. Mouring

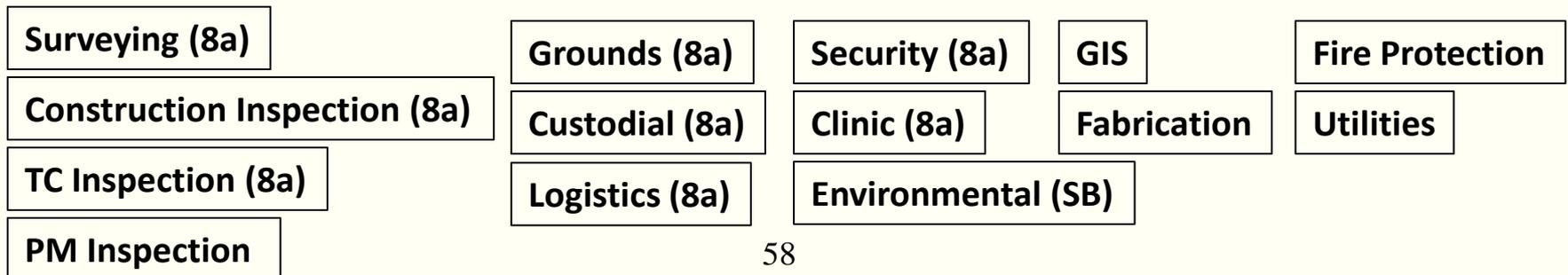
Center Operations Directorate (COD)
CMOE Source Evaluation Board Chair

Functions in Current Contract (ROME)

In current ROME...

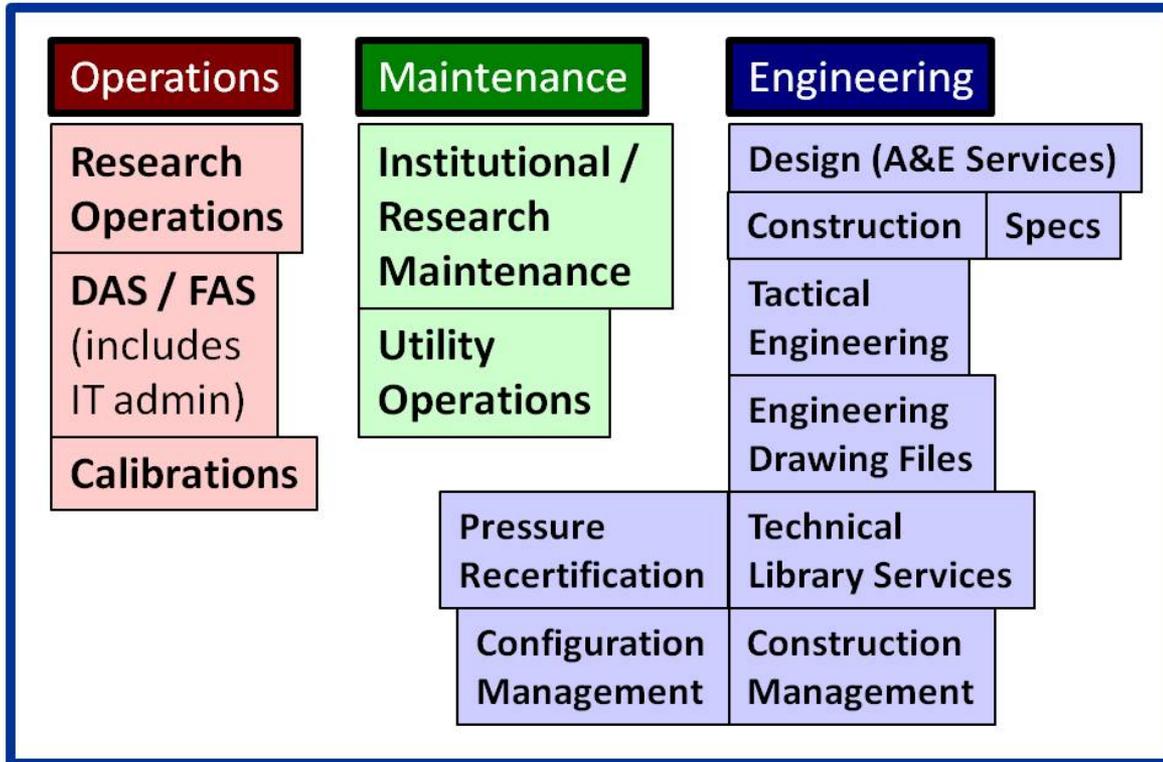


Not in current ROME...



Functions in Future Contract (CMOE)

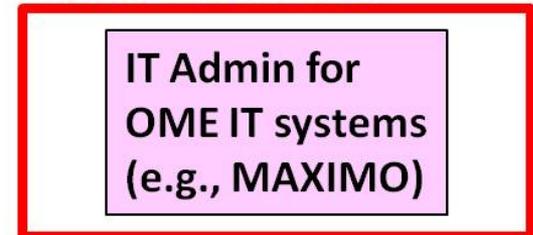
CMOE



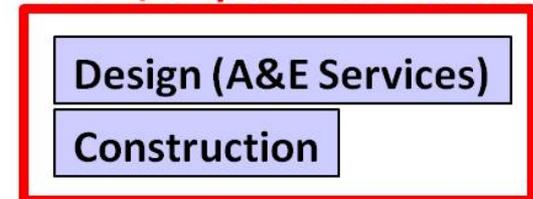
I3P



Center IT Contract



New / Separate Contracts



Procurement Information/Other

Mike Kaszyca, Contract Specialist
Office of Procurement (OP)

Current ROME Contract Information

- This solicitation is for a re-competition of the Research Operations, Maintenance, and Engineering (ROME) contract:
 - Contract Number: NNL04AA03B
 - Contractor: Jacobs Technology Inc.
 - Current Value: ~\$900M
 - Contract Type: Award Term with CPIF / CPFF base and CPFF / FFP IDIQ
 - Period of Performance: 02/01/04 – 01/31/14
 - Current Contract can be found on LaRC FOIA page (<http://foia.larc.nasa.gov>)

Procurement Specifics

- Full & Open Competition under NAICS 561210 - Facility Support Services (Size Standard of \$35.5 million)
 - Small business subcontracting goals
- CMOE is a hybrid contract consisting of a:
 - defined Cost-Plus-Award-Fee (CPAF) Core component for sustaining services;
 - Firm-Fixed-Price (FFP) and CPAF Indefinite Delivery Indefinite Quantity (IDIQ) component to support non-recurring and/or variable requirements; and
 - FFP phase-in period.
 - **NOTE:** All ODCs are non-fee bearing (ref. clause B.2)
- Potential 10-year Period of Performance (02/01/14 to 01/31/24)
 - Base period of 1-year, 8-months
 - Eight 1-year options, and one 4-month option
- Phase-in period anticipated to be 90 calendar days (11/01/13 to 01/31/14).

Proposal Preparation/Evaluation

- **Please read the solicitation carefully and ask questions!**
 - This presentation is not covering the specific proposal and evaluation instructions, requirements, and process contained therein.
 - Please carefully read clauses H.2, Organizational and Personal Conflicts of Interest, and H.3, Limitation of Future Contracting
 - Anticipate possible changes in Final RFP compared to DRFP
- Ensure proposal contains all necessary information, required documentation, and is complete in all aspects.
- NASA may reject any proposal that fails to comply with all proposal instructions.
- Evaluation is based upon actual material presented and not on the basis of what is implied.

Proposal Preparation/Evaluation

- Proposals received in response to this solicitation will be evaluated by a Source Evaluation Board (SEB) in accordance with NFS 1815.3.
- A best value trade-off process, as described at FAR 15.101-1, Tradeoff Process, will be used in making the source selection.
- The Government intends to award a contract without discussions, but reserves the right to hold discussions if the Contracting Officer deems them to be necessary
- Bidders Library (<http://procurement.larc.nasa.gov/cmoe.htm>) established to assist with proposal development (ref. provision L.7)

Procurement Schedule (Tentative)

- Draft RFP Comments Due January 23, 2013
- RFP Release Mid to Late February 2013
- Past Performance Due RFP Release + 30 calendar days
- Proposal Due RFP Release + 45 calendar days
- Proposal Evaluation Period April – October 2013
- Award NLT October 2013
- Begin Contract Phase-in November 1, 2013
- Begin Contract Performance February 1, 2014

Facilities Tour Guidelines

- Questions and answers WILL NOT be posted to NAIS/FedBizOps.
- Please ask any questions to the group; answers will be provided to the group real-time
 - Facility-related questions ONLY
- Assigned into two groups during sign in: **RED** and **BLUE**
- Facility Tour Schedule on next slide; PLEASE stay in your group
- These are active facilities; some may require PPE. Please exercise caution!
- Pictures are permitted
- No scheduled restroom breaks during the tour
- Pre-Proposal Conference concludes when you arrive back at the Reid Center

Facility Tour Schedule

RED

1:00pm Reid
1:10pm Bus ride through entire
West-Side
1:50pm 14x22
2:30pm New Town
3:00pm B1205/1293
3:45pm NTF
4:30pm Compressor Station
4:45pm Return to Reid

BLUE

1:00pm Reid
1:10pm 14x22
1:50pm New Town
2:20pm B1205/1293
3:05pm NTF
3:50pm Compressor Station
4:05pm Bus ride through entire
West-Side
4:45pm Return to Reid

Cost/Price Workshop Guidelines

- Encourage open dialogue to ensure complete understanding of cost/price instructions, evaluation criteria, and cost forms
- We will attempt to capture all questions and answers to post on NAIS/FedBizOps
 - We will NOT attribute any question to a specific person or company
 - Please also submit written questions by the comment due date and we will subsequently answer and post on NAIS/FedBizOps

Cost/Price Workshop

Austin Rentschler, Cost/Price Analyst
Office of Procurement (OP)

Lunch (on your own)

**Facility Tour begins Promptly at 1:00
PM (Departing from Reid Conference
Center)**

NNL13458016R

**Center Maintenance, Operations, and Engineering (CMOE)
Preproposal Conference Sign-in Sheet**

Name	Company	Email	Phone Number
Kirt Bush	Yang Enterprises, Inc.	kirt.bush@yangenterprises.com	407-365-7374
Tyng Lin Yang	Yang Enterprises, Inc.	tim.yang@yangenterprises.com	407-365-7374
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NNL13458016R
Center Maintenance, Operations, and Engineering (CMOE)
Preproposal Conference Sign-in Sheet

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Bob Rowe	ACR Technical Services	Bob.Rowe@acrcorp.net	757-969-7663
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